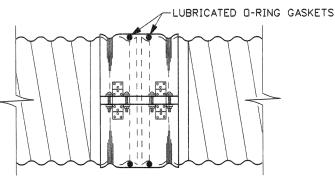
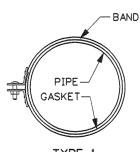


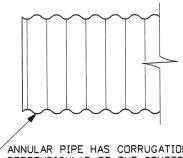
TYPES 1-A & 2-A ANNULAR COUPLING BAND



DOUBLE BAR AND STRAP-TYPE 3 HUGGER COUPLING BAND

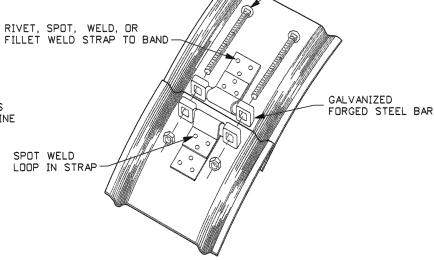


TYPE 1 SINGLE PIECE BAND



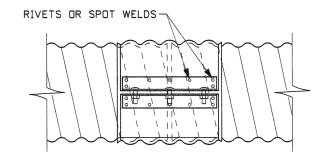
ANNULAR PIPE HAS CORRUGATIONS PERPENDICULAR TO THE CENTERLINE OF THE PIPE.



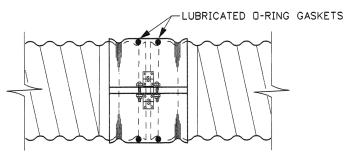


- 6" GALV.BAND BOLT

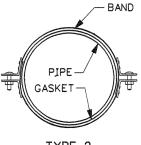
SPOT WELD LOOP IN STRAP-



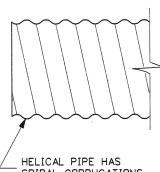
TYPE 1-B & 2-B HELICAL COUPLING BAND



SINGLE BAR AND STRAP-TYPE 3 HUGGER COUPLING BAND



TYPE 2 TWO PIECE BAND



SPIRAL CORRUGATIONS. HELICAL CMP

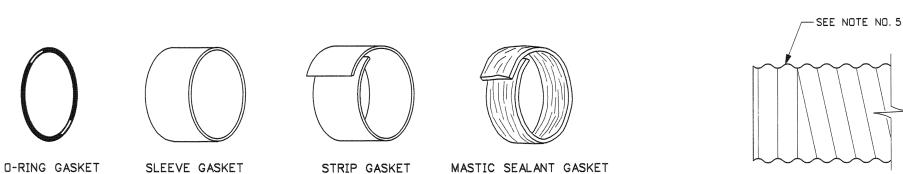
REFORMED HELICAL CMP



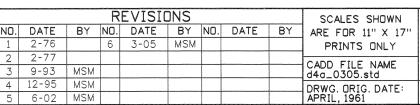
## NOTES

- 1. THE REFORMED ENDS OF HELICAL CORRUGATED METAL PIPE MADE TO ACCEPT ANNULAR COUPLING BANDS SHALL BE UNIFORM AND SMOOTH IN APPEARANCE. PIPE WITH IRREGULAR REFORMED ENDS ARE NOT ACCEPTABLE.
- 2. SLEEVE AND STRIP GASKETS FOR COUPLING BANDS TYPE 1-A AND 1-B SHALL EXCEED THE WIDTH OF THE BAND BY A MINIMUM OF  $\frac{1}{4}$ " ON BOTH EDGES. THE GASKETS SHALL FIT SNUGGLY AROUND THE PIPES PRIOR TO INSTALLATION OF THE BAND.
- 3. ALL WELDS AND/OR EXPOSED FERROUS METAL ON COUPLING BANDS AND BAND CONNECTING HARDWARE SHALL BE REPAIRED IN ACCORDANCE WITH AASHTO M 36.
- 4. STEEL BAND THICKNESS SHALL BE AT LEAST 1/2 THE THICKNESS OR GAUGE OF THE PIPE. ALUMINUM BANDS SHALL BE THE SAME THICKNESS AS THE PIPE.
- 5. THE JOINTS FOR SIPHONS AND SEWERS SHALL BE WATERTIGHT AND PRESSURE TESTED PRIOR TO ACCEPTANCE, AS REQUIRED IN THE STANDARD SPECIFICATIONS.
- 6. TO PREVENT GALVANIC ACTION WHEN BANDS AND PIPES ARE OF AN UNLIKE METAL, THE BANDS SHALL BE ASPHALT COATED.
- 7. GASKET MATERIALS ARE NOT TO BE ALTERED, SEWN, OR PATCHED. THE USE OF SEALANTS AND/OR LUBRICANTS WITH BAND GASKETS MUST BE AS THE MANUFACTURER SPECIFIES. THE QUALITY AND CHEMICAL COMPOSITION OF SEAL ANTS AND LUBRICANTS WILL BE AS THE MANUFACTURER REQUIRES. CONTACT THE MANUFACTURER FOR DETAILS.
- 9. SPOT WELDED OR FILLET WELDED STRAPS ON BANDS SHALL BE OF EQUAL STRENGTH TO RIVETED STRAPS.
- 10. ALL RECOMMENDATIONS IN THE PIPE COUPLING BAND TABLE ARE TO BE CONSIDERED MINIMAL.

11. NOT TO SCALE.



STANDARD CORRUGATED STEEL PIPE GASKET TYPES



**IDAHO** TRANSPORTATION DEPARTMENT

BOISE IDAHO





WATERTIGHT COUPLING BANDS

STANDARD DRAWING

STANDARD DRWG. NO D-4-A

English

FOR CORRUGATED METAL PIPES REQUIRES SHEET 2 OF 2

SHEET 1 OF 2

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	PIPE CORRUGATION STYLE				VERT	IRRIGATION	WER	UNDERDRAIN					
COUPLING TYPE	CORRUGATIONS	PIPE SIZE	COUPLING WIDTH	COUPLING BOLTS (NO.) DIA.	GASKET TYPE	ANNULAR PIPE	REFORMED HELICAL	HELICAL PI	SIPHON	* CUL	IRRI	SEW	QNS
	1½" × ¼" & 2¾" × ½"	6''-10''	7" (1 PIECE)	(3) 3/8"	SLEEVE	X	X		Х	Х	Х	X	Х
TYPE 1-A	23/8" × 1/2" & 3" × 1"	12"-15"	7" (1 PIECE)	(3) 1/2"	SLEEVE	X	X		Х	Х	Х	X	Х
ANNULAR COUPLING BAND	23/8" x 1/2" & 3" x 1"	18''-24''	12" (1 PIECE)	(3) 1/2"	SLEEVE	X	X		Х	Х	Х	X	Χ
	23/8" × 1/2" & 3" × 1"	30"-42"	24" (1 PIECE)	(5) <sup>5</sup> / <sub>8</sub> ''	SLEEVE	X	X			X	X		Χ
	1½" x ¼" & 2¾" x ½"	6''-10''	7" (1 PIECE)	(3) ¾''	SLEEVE OR STRIP			X		X	X		Χ
TYPE 1-B	23/8" × 1/2" & 3" × 1"	12''-15''	7" (1 PIECE)	(3) 1/2"	SLEEVE OR STRIP			X		X	X		Χ
HELICAL COUPLING BAND	2 <sup>3</sup> / <sub>8</sub> " × <sup>1</sup> / <sub>2</sub> " & 3" × 1"	18"-24"	12" (1 PIECE)	(3) 1/2"	SLEEVE OR STRIP			X		X	X		Χ
	23/8" × 1/2" & 3" × 1"	30"-42"	24" (1 PIECE)	(5) 5/8"	SLEEVE OR STRIP			×		X	X		Χ
	1½" × ¼" & 2¾" × ½"	6''-10''	7" (2 PIECE)	(4) <sup>3</sup> /8''	SLEEVE, STRIP OR MASTIC	×	X		X	X	X	Х	Χ
TYPE 2-A	23/8" × 1/2" & 3" × 1"	12''-15''	7" (2 PIECE)	(4) <sup>3</sup> / <sub>8</sub> ''	SLEEVE, STRIP OR MASTIC	X	X		X	X	X	Х	Χ
ANNULAR COUPLING BAND	23/8" × 1/2" & 3" × 1"	18"-24"	12" (2 PIECE)	(6) 1/2"	SLEEVE, STRIP OR MASTIC	X	X		X	X	X	Х	Χ
	23/8" × 1/2" & 3" × 1"	30''-84''	24" (2 PIECE)	(8) 1/2"	SLEEVE, STRIP OR MASTIC	X	X		X	X	X	Х	Χ
	1½" x ¼" & 2¾" x ½"	6''-10''	7" (2 PIECE)	(4) <sup>3</sup> /8''	SLEEVE, STRIP OR MASTIC			X		X	Х		Χ
TYPE 2-B	23/8" × 1/2" & 3" × 1"	12"-15"	7" (2 PIECE)	(4) <sup>3</sup> / <sub>8</sub> ''	SLEEVE, STRIP OR MASTIC			X		X	X		Χ
HELICAL COUPLING BAND	23/8" × 1/2" & 3" × 1"	18''-24''	12" (2 PIECE)	(6) 1/2"	SLEEVE, STRIP OR MASTIC			X		X	X		Χ
	23/8" × 1/2" & 3" × 1"	30''-84''	24" (2 PIECE)	(8) ½"	SLEEVE, STRIP OR MASTIC			X		X	Х		Χ
TVDE 7	23/8" x 1/2" & 3" x 1"	12"-48" (GALV.)	71/2" (STRAP)	(2) 6" x ½"	O-RING	×	X			X	X	Х	Χ
TYPE 3 HUGGER CONNECTING BAND	23/8" × 1/2" & 3" × 1"	54"-96" (GALV.)	101/2" (2 STRAP)	(4) 6" × <sup>5</sup> / <sub>8</sub> "	O-RING	×	X			Х	X	Х	Χ
HOGGER CUNNECTING BAND	2 <sup>3</sup> / <sub>8</sub> " × 1/2" & 3" × 1"	102"-144" (GALV.)	12" (3 STRAP)	(6) 6" x 1/8"	O-RING	X	X			X	Х	Х	Χ

\* WATERTIGHT BANDS ARE NOT REQUIRED ON CULVERT INSTALLATIONS UNLESS SPECIFIED BY THE PLANS OR SPECIAL PROVISIONS

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4	12-95	MSM							DRWG. ORIG. DATE:	_
5	6-02	MSM							APRIL, 1961	

IDAHO
TRANSPORTATION
DEPARTMENT

BOISE IDAHO







WATERTIGHT COUPLING BANDS FOR CORRUGATED METAL PIPES

REQUIRES SHEET 1 OF 2



D-4-A

